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Fig. 35 shows a longitudinal section illustrating an example of a conventional bulk acoustic wave filter.

Fig. 36 is a perspective view of a preferred embodiment of the vibrating device according to the present invention.

Fig. 37 is a schematic vertical sectional view showing the displacement distribution of the vibrating device of Fig. 36 obtained from an analysis by a finite element method.

Fig. 38 is a view showing the impedance-frequency characteristics and the phase-frequency characteristics of the piezoelectric resonator of Fig. 36.

Fig. 39 is a perspective view of a piezoelectric resonator of the thickness longitudinal vibration mode as another modified example of the present invention.

Fig. 40A and Fig. ^{40B}~~41B~~ are vertical sectional views of another modified example of the vibrating device according to the present invention.

Fig. 41A and Fig. 41B are front sectional views of still another modified example of the vibrating device according to the present invention.

Fig. 42A and Fig. 42B are vertically sectional views showing still another modified example of the vibrating device according to the present invention.

Fig. 43A and Fig. 43B are front sectional views showing a further modified example of the vibrating device according to the present invention.

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